

# THE TECH

VOL. XXIX. NO. 123.

BOSTON, MASS., THURSDAY, MARCH 24, 1910

PRICE ONE CENT

## DR. WHITNEY SPEAKS ON "THE CHEMIST'S FIELD"

### Need Of More Research Men Is Keynote Of His Talk To Chemists

Dr. W. R. Whitney in speaking on the subject of "The Chemist's Field," made several statements which, coming from so high an authority, have the greatest significance for Tech men. The most important point in Dr. Whitney's lecture was that continued study and research after graduation was of the very greatest benefit to any man who was at all inclined toward research work. Such study, if undertaken unselfishly and without a view towards financial gain, always resulted in achievements which were far better and far above the dollars and cents standard of success. He further said that there were too few men at Tech who realized this, and far too many men who took no more interest in their work than to get through with it and into a \$75 per month position. "Teaching such men," said Dr. Whitney, "is casting pearls before swine."

The growth of chemical industries, and of the number of chemists was illustrated by charts showing this increase year by year. "No man has a wider field of usefulness in America today than the chemist," was the conclusion drawn from these charts. To illustrate the many fields in which chemistry was indispensable, Dr. Whitney described the progress made in biological chemistry, and especially in the chemistry of immunity. But in order that chemistry may continue its usefulness in the future the chemist must be more than an analyst or a chemical engineer; he must possess that inquisitiveness of nature and that unselfish point of view which will lead him to investigate for the sake of knowing, that is, for the love of the work.

Dr. Whitney declared that he was fighting against the idea that Technology was a trade-school which merely fitted men to make a living. Such men he compared to the professionals in athletics, while the men who have had instilled into them a love for knowledge, are like the trained amateurs in sport.

Next Dr. Whitney gave his view of the difference between a discovery and an invention. The discovery always comes from a trained man eager for knowledge, while the invention is an improvement of some sort superimposed upon the fundamental discovery. The discovery never results either from previous experience or from previous knowledge, but only from the type of mind possessed by the discoverer. He showed by a long list of examples that nearly all the greatest discoveries came from professors; trained men working for no financial gain, but led on by their inquisitiveness.

In closing his scholarly address Dr. Whitney stated that America has plenty of analysts, and plenty of the various kinds of chemists, but if progress such as Germany and France are making, is to be made here also, America must have more men willing to engage in research.

Tomorrow at 4.15 Dr. Whitney will deliver his second of the series of three lectures. The subject will be "The Development of the Incandescent Lamp."

Yale and Princeton have been added to the Dartmouth tennis schedule this year. All of Dartmouth's last year's team are available this spring. The schedule has just been given out, with the exception of matches expected to be arranged with Cornell and the Massachusetts Institute of Technology.

## PENN. CLUB TO HEAR ARCTIC EXPLORER

### Dr. Sharp Of Brookline To Tell Penn. Club Of Trip With Peary

The Pennsylvania Club Dinner, to be held Thursday, March 24, at the Union, promises to be an exceptional treat, in regard to the entertainment as well as the victuals. Dr. Sharp of Brookline is to address the assembly on "A Trip to the North with Peary in 1891."

Dr. Sharp is a man of national reputation. He was formerly director of the Academy of Natural Sciences in Philadelphia. In 1891 he was a member of the Peary Arctic Expedition, in which both Cook and Peary participated, and upon this novel experience he will base his talk before the Pennsylvania Club. His lecture will be illustrated with stereopticon views which will convey vivid ideas of Arctic life to the audience.

It is especially urged by the president that all the members of the club be present to hear this rare entertainment. The president has been trying to arrange with Dr. Sharp for over a month and it is expected that everyone will seize the opportunity to come and hear the splendid programme he has arranged. Non-members are especially invited to attend after the dinner, about 7.30. Dinner will be served at 6.30.

## STORAGE BATTERY

### Proves Efficient In Test Given Edison's New Car

The new Edison storage battery street car made its way into the horse barns of the Twenty-eighth and Twenty-ninth Street Railroad last night as a regular fare collecting vehicle of the streets after a day's service. Ralph Beach of the Edison West Orange plant said: "The car can get in a bigger day's run than can be made on streets on which it runs. The difference in length of run from my figures come from the fact that it takes about five times as much current to start a car as to run it after it has taken on its speed. At the rate of speed practicable in these congested streets a car is always in a state of starting or stopping. It is always using a maximum of current. I can add to my cells and add to the car's possibilities, but that makes additional weight, and I don't want to do it if it is not absolutely necessary. The tracks over which this test was made were very dirty, for the old horse cars were not heavy enough to cut through the dirt and produce a clean rail. And then there were many stretches of bad track, and the run was through the most congested part of the city, so that I feel very proud of its eight hours' showing."

The one thing on which the engineers refused to be convinced on the trial run of the experimental car was the item of cost. They said that an ordinary trolley car costs five cents per mile for current, and that if this car made its run under twice that it would be a wonder.

When the figures were compiled at the end of the run it was claimed that the cost per mile for the sixty-five miles of the day's work was 6.4 mills, which was only about half of what Mr. Beach expected. He told the engineers who were inclined to doubt his assertion that he had run the car for eight mills per hour, and that it could not possibly

## PLANS FOR CATHOLIC CLUB DANCE DECIDED

### Annual Dance Of Club To Be Held April 4th In Copley Hall

On the evening of April 4, the Catholic Club will hold its annual dance in Copley Hall. All the arrangements are practically complete and everything points toward one of the most enjoyable affairs ever given under the auspices of the club.

The committee in charge have been working steadily during the past six weeks and elaborate plans have been made for the entertainment of the many invited guests. At the recent meeting the enthusiasm ran very high and the members will undoubtedly be in attendance without exception. The committee are most anxious to make the dance essentially a Technology affair and it is hoped that a good many of the students will take advantage of this opportunity.

The matrons of the evening will be Mrs. Richard C. MacLaurin, wife of President MacLaurin of the Institute, Mrs. M. M. Cuniff, Mrs. John D. Martin and Mrs. Stephen O'Meara. Furthermore many ladies active in the social life of Boston have consented to act as patronesses.

All the men desirous of attending and who have not as yet procured invitations can obtain them from the members of the committee at the Union during any noon hour. A. F. Leary 1911, P. Cyr 1910, J. M. Herlihy 1911, C. H. Harrington 1911 and T. Killian 1911.

The next meeting of the club will be held on Wednesday, March 30, 1910. A talk will be given on "The Spanish Inquisition." As this is the last meeting before the big dance all of the members are especially urged to be present.

run up to over two cents on the streets of this city.

The car ran throughout the day without a single hitch, making smooth stops and easy starts. It completed its 800th mile at the end of its day's run, counting all the trips it has made since it was built. The only wear noticeable was on the brake shoes, which had become so worn that they had to be replaced.

The body of this car is 18 feet long between posts, with 4 feet vestibule platforms. The extreme width is 7 feet inches, and the seating capacity of the car is 26. The under frame of the car is made up of two inch by 6 inch as longitudinal sills and nine cross-sills of the same size and material. A steel tie-rod runs by the side of each cross-sill and passes through the longitudinal sills, thus firmly binding the under structure. Two eccentric arches, each made of a sheet of three-ply veneer covered with canvas, form the roof. The battery equipment of the car consists of 200 cells of Edison A4 type for driving, and ten cells of the same type for lighting. These cells are separately connected in working, but are connected in series when being charged, so that any variations in voltage owing to the operation of the car will not affect the lamps. The truck is of the standard-gauge, four-wheel type, with 6 feet 6 inch wheel base. The frame of the truck is of steel, welded at all joints. The driving equipment consists of two 5-h. p., 110-voltage Northern motors, which, besides possessing fairly high speed, are much lighter in construction than standard motors of the same output. The wheels are driven from these motors by means of a chain drive. Dur-

(Continued on page 2.)

## CREW HARD AT WORK ON GYM EXERCISES

### A Fine Spirit Is Shown By The Large Number Of Candidates

There has been an average of twenty to twenty-five men report daily for the second week of crew practice and a great spirit is shown although the work assigned is pretty hard.

The daily practice comprises the following: Chest weights (24 times each), raising arms horizontally and overhead with the arms front.

Pull to shoulders, 48 times.

Between the legs to overhead position using all weights, 24 times.

Stall Bars.

18 times, feet in the bars, sitting on bench, lean backward to the boor.

6 times, hanging by hands, raise feet horizontal position.

Iron Dumb Bells.

12 times, raise from floor to overhead position with stiff knees and arms.

24 times, raise from floor to overhead bending knees and arms.

Running.

10 laps, or run from Gym to Mass. Ave. and back, 1-2 mile.

Wrist Machine.

2 times each, turning barrel toward you beginning at the small end.

Coxswain Exercises.

Run half mile and use light chest weights and other light exercises.

Men must report at least three times a week, 4 to 6 times if possible.

## MUSICAL CLUB CONCERT

### Program To Be Rendered To Hardware Merchants' Ass'n

The services of the Technology musical clubs have been secured by the New England Hardware Dealers' Association to furnish music at their banquet in Revere Hall tonight.

The concert begins at 8 P. M., and between routine speeches and courses the clubs will perform.

The selections will be substantially the same, with the exception of the inexpressible banjo club, which, through the efforts of its leader, has several new and impressive pieces to offer—in case of repeated encores only.

The Glee has a new song of merit entitled "De Coppah Moon," which will surely be enjoyed.

The Banjo Club has been unfortunate in losing H. Lockett '10 and D. Wyman '12, who have been too busy to continue with musical pursuits. However, H. Sharp '09 has accepted the leadership and Mr. Wheeler takes Wyman's place.

Manager W. W. Warner has had his say and the spirit of increased activity promises to keep the clubs to the highest standard ever attained at Tech in the musical clubs.

## CALENDAR

Thursday, March 24.

4.00—Cross Country Practice at Field.

Friday, March 25.

4.00—Crew Practice.

4.15—Gym. Team Practice.

4.30—Union Entertainment.

Saturday, March 26.

2.14—Hare and Hounds at North Station for Wakefield.

2.30—Combined Show Rehearsal.

3.00—Crew Practice.

# THE TECH

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BOSTON, MASS., MARCH 24, 1910.

"College life that fits for genuine usefulness in this world is a life of hard daily work with very, very little time for pleasure, and that should be wholly on the college man's initiative at his best convenience."—L. A. Britton.

## GENERAL NEWS

### TELEGRAPH NEWS OF THE MORNING.

#### WEATHER REPORT.

Washington, D. C., March 24.—Forecast for Boston and vicinity—Fair and cooler, and light easterly winds.

#### OXFORD WINS.

Putney, Eng., March 24.—Oxford defeated Cambridge in the annual eight-oared rowing race yesterday by three lengths. The time was 20m. 14s. Last year Oxford won by three and one-half lengths in 19m. 50s. For the first mile today the Light Blues put up a good fight, but thereafter the race was a procession. The official time of the winning crew at the various points on the course was as follows: Start, 12:26; first mile, 4 minutes 19 seconds; Hammersmith bridge, 7 minutes 42 seconds; Chiswick church, 12 minutes 20 seconds; Barnes bridge, 16 minutes 46 seconds; finish, 20 minutes 14 seconds. According to the English practice the time of the defeated crew was not taken. Cambridge won the toss and chose the Middlesex shore, but the conditions of wind and water were such that there was practically no advantage in the selection. The crews were sent away to a splendid start, and with slightly quicker stroke the light blues forged ahead. The boats had hardly covered a dozen yards before the Oxonians drew up to a level with their rivals, and before the half mile had been completed held a slight lead. Rounding the curve, Cambridge having had the advantage of the inside position, gradually overhauled the Oxonians, passed them and secured a lead at Crab Tree, just beyond the mile post, of nearly a quarter length.

Daytona, Fla., March 24.—Barney Oldfield reeled off some fast performances in the second day's races at the present auto meet here yesterday afternoon and with his Benz car broke the world's kilometre record in a time trial by covering the distance in 17 4-100s. The previous world's record was 17 76-100s. A kilometre is 3280 feet 11 inches. He failed, however, to improve his world's record mile of last week, when he did 27 33-100s. His time for the mile today was 28 2-5s.

Cambridge, March 24.—Capt. Withington of the Harvard football team has withdrawn from the 'varsity crew in order that he may give his undivided attention to the spring football practice. Withington has been rowing at No. 4 in the 'varsity shell all spring, and his absence means that he will not row in the Annapolis race April 22, and his chances for a place in the boat will

depend upon whether he can get back into form after the spring practice ends. In Withington's absence, Leslie has been given his place and will undoubtedly row at No. 4 until after the first race. The crew has been further weakened by the absence of Capt. Waid, who is out with a severe attack of tonsillitis, so that at present the crew is practically at a standstill.

Boston, March 24.—The managers of several of the large theatres and the managers of a number of the moving picture theatres are having a controversy over the nature of the entertainments given in the latter places, and at a hearing given by Mayor Fitzgerald late yesterday afternoon, counsel for both sides was instructed to prepare briefs on which the real questions involved will be decided.

#### WASHINGTON, D. C.

Washington, March 23.—In an automobile accident near Fort Myer, Va., yesterday afternoon, Mrs. Herbert J. Slocum, wife of Major Slocum of the 7th cavalry, who is attached to the department of the east, headquarters at Governor's Island, New York City, was killed. Maj.-Gen. J. Franklin Bell, chief of staff of the army, was injured. Post Surgeon Allen at Fort Myer said Gen. Bell's injuries were not very dangerous.

#### FOREIGN.

Luxor, Upper Egypt, March 24.—Col. Roosevelt was asked yesterday whether it was true as reported from Washington that Gifford Pinchot, the deposed chief forester of the United States, had been summoned by him to Naples or some other European point for a conference concerning the Ballinger-Pinchot controversy and the present conservation policy of the administration.

It has been announced that the complete library of the late Professor Hammond Lamont, formerly of the English department of Brown University, and afterwards editor of The Nation, will be transferred soon from New York to the Brown University library. Professor Lamont's library is one of the most complete private libraries in America, and makes a very desirable addition to the university libraries. It will be a gift of the classes of 1899 and 1900, who state that there is no condition attaching to the gift, except that it shall always be so placed that it will best serve the interests of the entire student body, especially in work taken in connection with the department of English. The disposal of the library will be in the hands of that department and the librarian.

W. F. Roos, the former Worcester athlete, now a freshman at Columbia, will have to do the weight-throwing for that college this season, for there are very few candidates out for the shot-put and hammer throw. Roos, since he went to Columbia, has established some new college marks in the shot and has a chance to stand out well in the intercollegiate.

## STORAGE BATTERY

(Continued from page 1.)

ing the early trials it was found that the motor gave the car a maximum speed of fifteen miles per hour, and with fourteen stops per mile enabled a schedule of eight miles per hour to be maintained. The power consumption in accelerating is said to be about 3 1-2 kw., and in running about 1 1-2 kw. The body of the car weighs 3500 pounds, the truck and electric equipment 3500 pounds, and the battery 3000 pounds, giving a total of 10,000 pounds. The battery is said to be capable of supplying energy for 150 miles on a single charge.

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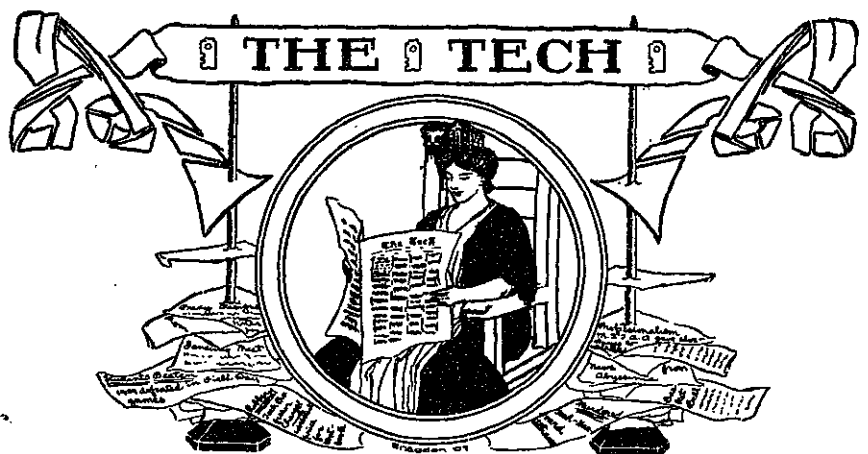
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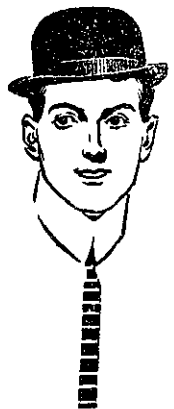
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## NOTICES

By Vote of the Faculty—The exercises of the Institute will be suspended on Friday, Saturday, Monday and Tuesday, April 15th, 16th, 18th and 19th, 1910..

A. L. MERRILL,  
March 18, 1910. Secretary.

### SCHOLARSHIPS.

March 21, 1910.

Each applicant for a scholarship (except a State scholarship) for the ensuing year should hand in his application blank at the Registrar's Office, and leave his name before April 4th on a special card enclosed in an envelope, in Professor Dewey's box in the Registrar's Office. (Blanks and cards may be obtained at the Registrar's Office.) Applications dated since January 1st need not be duplicated, but the applicant should notify Professor Dewey in writing if he desires to apply for a scholarship grant for next year.

With the name state the class, course and all free hours for consultation. Each applicant will be notified through the "Cage" in regard to date selected for consultation. Students applying, therefore, should inquire at the "Cage" for mail.

STATE SCHOLARSHIPS.—Applications should be made to the Secretary of the State Board of Education on blanks to be furnished at the State House.

While the State Board of Education has full control of the award of the State scholarships, it is customary to

submit all applications to the Faculty for endorsement as to standing, and for such advice as other data in the possession of the Faculty may warrant. For this reason, while the Scholarship Committee has no authority to request conference or further information from applicants for State scholarships, it will always be glad to receive and consider all information that may be furnished. In any case, students intending to apply for State scholarships are requested to notify the Registrar to that effect.

WALTER HUMPHREYS,  
Registrar.

### GRADUATION.

The list of candidates for graduation the present year has been presented to the Faculty, and all persons whose names are on it have been notified individually. The list cannot now be changed except by vote of the Faculty, and any student expecting to be recommended for the degree the present year should consult me if he has not been notified that his name is on the list.

A. L. MERRILL,  
Secretary.

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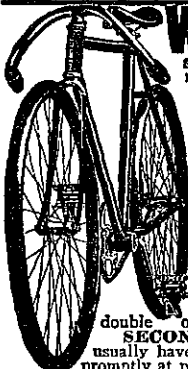
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## NOTICES

### GERMAN II, SECTION 18.

The following-named students are transferred from this section to Sections 19, 20, 21 22, and will recite according to Mr. Meister in Room 2; Lowell, on Mondays from 10-11, Wednesdays from 9-10 and Fridays from 2-3: G. A. Cahill, Jr., H. S. Crocker, J. M. Isenberg, F. R. Jones, J. G. Lanning, F. H. Mahoney, M. W. Merrill, F. B. Morton, D. V. Nason, A. J. Pasture, L. W. Parsons.  
March 3, 1910.

All men having keys to lockers at the Field are requested to give their names and locker numbers to the care-taker since the list has been lost.

Pennsylvania Club Dinner postponed to Thursday, March 24. Dr. Sharp of Brookline to speak.

### CREW.

ONLY those who report regularly at the Gym. will receive permits to the Union Boat Club.

The Gyroscope lecture, which was announced for Wednesday night in yesterday's Tech, does not take place until next Wednesday, March 30.

### 1910.

Ballots for the Senior Class Day Committee have been mailed to all Seniors who are taking three-fourths of their subjects with the Senior Class, and who have paid their class dues. Ballots must be turned in at the Cage before 4.15 P. M. Thursday, March 24, 1910.

Senior Portfolio:—Saturday, March 27 is absolutely the last chance for history slips and pictures to be ready for the Portfolio. Anything not ready by this time will be left out of the book. Edition is limited to subscribers. Deposits must be made at once in order to obtain copies.

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### 1913.

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